

**Iowa Department of Natural Resources
Natural Resource Commission**

ITEM

14

DECISION

TOPIC

Lost Island Lake Restoration Project Phase I

The Commission is requested to approve an agreement with an engineering and consulting firm to be named after the 12/09/08 competitive bid selection process and provided to the Commission prior to the 12/11/08 NRC meeting.

Initial water quality and recent fisheries studies confirm an overabundance of common carp in Lost Island Lake. The Department is requesting an engineering, design, and feasibility study for the design and construction of four fish barriers and methods and management capabilities for manipulating water levels on Barringer Slough, Blue Wing Marsh, and a small portion of Lost Island Lake for the purposes of renovation and rehabilitation. The parties will enter into a one-year contract to analyze and make technical recommendations for restoration to meet water quality goals. Specific objectives of the Project include:

1. Determine the feasibility of and methods for water level management capabilities on Blue Wing Marsh.
2. Design and engineer a fish barrier system between Blue Wing Marsh and Lost Island Lake.
3. Design and engineer a fish barrier and water level management capabilities between Lost Island Lake and the portion of Lost Island Lake southwest of Clay County Road A41 (340th Ave).
4. Design and engineer a fish barrier and water level management capabilities between Lost Island Lake and Barringer Slough.
5. Determine the feasibility of and methods for water level management capabilities on Barringer Slough.
6. Design and engineer a fish barrier system downstream from Barringer Slough.
7. Provide insights and alternatives to accomplish lake restoration objectives.

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